

Replace the paragraph on page 6 comprising equation [6] with the following.

$$R_j^2 = \sum_{i=N}^{2N-1} r_j(i + \tau_j) = \alpha_j^1 S_{[1]2} + \alpha_j^2 S_1^* \quad [6]$$

IN THE CLAIMS – (clean version):

14. (amended) A mobile communication system, comprising:

a mobile antenna arranged to receive a plurality of signals from multiple signal paths from each of plural remote antennas of an external source;

an input circuit coupled to receive the plurality of signals from the mobile antenna, the input circuit producing a plurality of input signals including a first input signal from a first remote antenna and a second input signal from a second remote antenna, at least one of the first and at least one of the second input signals corresponding to the same datum; and

a correction circuit coupled to receive a plurality of first estimate signals, a second estimate signal and the first and second input signals, the plurality of first estimate signals corresponding to respective signal paths of the first input signal, the correction circuit producing a first symbol estimate and a second symbol estimate in response to the first and second estimate signals and the first and second input signals.

19. (amended) A mobile communications system as in claim 14, wherein a total diversity of each of the first and second symbol signals is at least twice a number of the plural remote antennas.

Please add the following new claims:

23. (New) A mobile communication system as in claim 14, wherein the mobile antenna receives the first and second input signals over a common channel.

24. (New) A mobile communication system as in claim 14, wherein the mobile antenna receives the first and second input signals over a common frequency band.

25. (New) A mobile communication system as in claim 14, wherein the first input signal comprises a data symbol and the second input signal comprises a complex conjugate of the data symbol.

REMARKS

Claims 14, 15, 17-19, 21, 22 and 66-68 were rejected under 35 U.S.C. 102(e) as being anticipated by Alamouti et al. (6,185,258) in parent application 09/205,209. Applicant respectfully traverses this rejection, (new claims 23, 24 and 25 being identical to claims 66-68) as set forth below.

Independent Claim 14, as amended, requires and positively recites, a mobile communication system, comprising: “a mobile antenna arranged to receive a plurality of signals **from multiple signal paths from each of plural remote antennas** of an external source”, “an input circuit coupled to receive the plurality of signals from the mobile antenna, the input circuit producing a plurality of input signals including a first input signal from a first remote antenna and a second input signal from a second remote antenna, at least one of the first and at least one of the second input signals corresponding to the same datum” and “a correction circuit coupled to receive a plurality of first estimate signals, a second estimate signal and the first and second input signals, the plurality of first estimate signals corresponding to respective signal paths of the first input signal, the correction circuit producing a first symbol estimate and a second symbol